Peter Lee

portfolio www.peterlee.tech

contact
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Skills

Languages
Java, Python, C/C++, Javascript, HTML, CSS, Latex

Frameworks
Meteor, MEAN stack, jQuery, Sass, Materialize, OpenCV

Project Workflow
Gulp + Browsersync, NPM, Bower, Github, Heroku

Operating Systems
Linux, Windows

Design
Adobe Photoshop, Adobe Illustrator

Education

UC Berkeley Class of 2019
B.A. Computer Science and Applied Mathematics
GPA: 4.0

Relevant Coursework
CS61A – Structure and Interpretation of Computer Programs (A+)
CS61B – Data Structures and Algorithms (A+, Ranked 3rd out of 1360)
CS61C – Great Ideas in Computer Architecture
CS70 – Discrete Math and Probability Theory
CS170 – Efficient Algorithms and Intractable Problems
Industrial Engineering 192 – Technology and Entrepreneurship
Math 54 – Linear Algebra and Differential Equations
Math 53 – Multivariate Calculus

Experience

Launchpad, www.callaunchpad.org November 2016 – Present
Founder
- Founded an organization that is dedicated to empowering students at UC Berkeley to solve real-world problems with artificial intelligence, machine learning, and data science
- Developed the recruitment process and design for students to contact us through a pseudo-backend system on the website

Virtual Reality at Berkeley, vr.berkeley.edu September 2016 – Present
Researcher
- Developed an open source augmented reality toolkit that enables human-computer interaction in 3D space on augmented reality platforms
- Integrated depth sensors, RBG cameras, and transparent display glasses on a wearable device that collects and displays physical data
- Implemented hand tracking and detection algorithms in OpenCV for depth sensors and RBG cameras

Projects

Hack In, www.hackin.io June 2016 – July 2016
Meteor, Sass, jQuery
- Built a recruiting platform for tech companies to assess software development applicants through an integrated technical assessment
- Created an online platform hosted on Heroku with 5,000 lines of code in 3 weeks for the beta release

RecognitionCV, github.com/petr-lee/RecognitionCV December 2016 – Current
OpenCV, C++
- Implemented a computer vision API that supports advanced hand tracking and face recognition through real-time video analysis
- Integrated object calibration and detection through median filtering, contour analysis, and point clustering

Interactive Competitive Programming Notebook, www.peterlee.tech/algorithms December 2015 – Current
Materialize, Sass, jQuery, C++, Java
- Created an online interactive collection of famous algorithms in computer science as a reference for competitive programming contests

Frontend Boilerplate, www.peterlee.tech/FrontendBoilerplate June 2016
Bootstrap, jQuery, Sass, Gulp + Browsersync
- Created a starter project for a highly customizable, modern frontend web project
- Compiled advanced frontend features including parallax, scroll animations, CSS preprocessing, and Sass mixin libraries

Computer Science Mentors, csmentors.berkeley.edu August 2016
Materialize, Sass, jQuery
- Designed a modern website for Computer Science Mentors at UC Berkeley that is based on Google's material design principles
- Received over 2,000 views from undergraduate students and mentors at CSM

Awards

Hackerrank World Cup September 2015
Semifinalist
- Qualified for the semifinals by solving competitive programming problems in C++ involving topics including data structures, graph theory, string processing, and computational geometry

Hack Into It November 2015
Overall 3rd Place
- 24-hour hackathon hosted by Intuit seeking innovative methods of querying, organizing, and displaying large databases
- Built educational web application on tax implications of lifestyle changes

Activities

Innovative Design September 2016 – Present
Gold Tier Member
- Facilitated workshops on graphic and web design that offer education and experience to intermediate designers
- Provided graphic design and web development services to on-campus organizations

Computer Science Mentors August 2016 – Present
Mentor
- Taught a group of computer science students fundamental concepts of data structures, software development, and algorithms
- Created lesson plans and review sheets to improve general problem solving skills and prepare students for exams

University Symphony Orchestra August 2015 – May 2016
Cellist
- Performed at sectionals, concerts, and rehearsals to practice classical symphonies by Tchaikovsky, Dvorak, and Mendelssohn as well as modern compositions by guest composers